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(54) Title: COMPOSITIONS AND METHODS FOR TREATING VIRAL INFECTIONS

(57) Abstract: The present invention provides methods of treating a virus infection, and methods of reducing viral load, or reducing the time to viral clearance, or reducing morbidity or mortality in the clinical outcomes, in patients suffering from a coronavirus infection. The present invention further provides methods of reducing the risk that an individual will develop a pathological virus infection, that has clinical sequelae. The methods generally involve administering a therapeutically effective amount of a Type I or Type III interferon receptor agonist and a Type II interferon receptor agonist for the treatment of a virus infection, and co-administering an amount of an additional non-pirfenidone/pirfenidone analog agent effective to reduce or eliminate the occurrence or severity of side effects normally associated with the administration of the interferon receptor agonists.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/10049

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 45/00, 47/00, 48/00, 49/10, 38/21
 US CL : 424/93.1, 85.4, 85.5, 85.6, 85.7; 514/44, 45, 46, 49, 50

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 U.S. : 424/93.1, 85.4, 85.5, 85.6, 85.7; 514/44, 45, 46, 49, 50

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
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C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| Y | CARCIA L. Pirfenidone effectively reverse experiment liver fibrosis. Journal of Hepatology. December 2002, pages 797-805, see pages 797, Figs. 3-5. | 1-7 |
| A | HONG J.H. Current Status of Anti-HBV Chemotherapy, Arc. Phar. Res. April, 1998, V/ol. 21. No. 2, pages 89-105, see entire document. | 1-7 |
| Y | DUCHEIKO. G. Side Effects of Alpha Interferon in Chronic Hepatitis C. HEPATOLOGY, October, 1997, Vol. 26 (Suppl. 1), pages 112S-121S, see pages 112S and 1117S. | 1-7 |
| —A | | 8-13 |
| Y | WO 94/26249A1 (MARGOLIN. S.) November 24, 1994 (24.11.94), claims 1-22. | 1-7 |
| Y | SHINICHI et al. Current Therapy for Chronic Viral Hepatitis and Its Future. 1999, Vol. 36. No. 2, see entire document by the translated version. | 1-7 |
| Y | SCHUPPAN. D. et al. Hepatitis C and liver fibrosis, Cell Death and Differentiation. January 2003, Vol. 10, pages S59-67, see pages 59-60, especially Fig. 1. | 1-7 |

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INTERNATIONAL SEARCH REPORT

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Continuation of B. FIELDS SEARCHED Item 3:
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